



SCREENING TOOLS TO IDENTIFY CHILDREN

THE NEXT LEVEL OF CASE FINDING 2 NOVEMBER 2017

DR JACKIE DUNLOP

RIGHT TO CARE PAEDIATRIC PROGRAMME
PAEDIATRIC AND ADOLESCENT SCALE-UP PROJECT











Why Case Finding in Healthcare Facilities should be a priority

- Treatment coverage for children living with HIV remains unacceptably low, with only three in ten eligible children receiving antiretroviral therapy by 2012¹
- Paediatric HIV prevalence is highest in
 - inpatient settings,
 - nutrition centres,
 - expanded programme on immunisation centres and
 - paediatric outpatient settings²
- Although HIV testing in children at health facilities is recommended by WHO, it is not well implemented.²
 - UNAIDS Report on the Global AIDS Epidemic, 2013
 Cohn J, Whitehouse K, Tuttle J, Lueck K, Tran T. Paediatric HIV testing beyond the context of prevention of mother-to-child transmission: a systematic review and meta-analysis. The Lancet HIV. 2016;3(10):e473-e481.

Use of screening tools in other countries

Zimbabwe (Paediatric HIV prevalence 4.8%)

- A simple clinical algorithm proposed 4 questions
- Older children (6 16yrs)
- Primary Health Facilities
- 1 or more "Yes" correctly identified 80% of children with HIV infection¹

Malawi (Paediatric HIV prevalence 2%)

- Implemented a 6 question screening tool
- Children (1 -15 years)
- Hospital Wards
- If a child screens negative (score=0) then there is a good chance they aren't HIV-infected²

South Africa - Paediatric HIV prevalence 2.7% (5-14y)³

- This screening tool brings together the **existing guidelines** in a concise list of questions and formalises the screening process
- To focus **limited resources** at **targeted testing in children** who are most at risk (<15 years)
- Does not include factors involved in horizontal transmission e.g. sexually transmitted infections
- It aims to have a high sensitivity but not specificity
- The goal is to ensure that no HIV-infected child leaves the facility untested
 - 1. Ferrand RA et al, 2011, TMIH
 - 2. Schoolev A, 2016
 - 3. South African National HIV Survey, 2012

Screening Tool

- Designed by the Right to Care Paediatric Programme
- Rolled out by the Johannesburg Health District management in April 2017
- Focus on children of 5 14 years old (beyond IMCI)
- Only administered by healthcare providers qualified to provide HTS to children
- Sensitive nature around of questions
- Completed form to remain in child's file
- TB screening on the back





Screening tool to identify children and families at risk of living with HIV

Date D M M	Y Y Y Y Clinic		File no		
Child's Name & Surname		Gender F M M	DOB D M M Y Y Y Y		
Escort's Name & Surname		Phone Number Relation			
Parent/primary caregiver Name & Surname					
A) File Review When the child presents to the Health Care Facility review the file for the following: (As necessary, explain that health screening will be done for all children.)					
S the child's HIV status known?	Negative/Unknown	Positive (On ART To Initiate ART if not on ART		
If there in (When the Company) 1. Is the 2. Has p. 3. Has p. 4. Is p. 4.	ING QUESTIONS s a single "yes" the child needs HIV testis e need for testing is identified it is not nee parent(s) or sibling(s) of the child H arent(s) or sibling(s) of the child H arent(s) or sibling(s) of the child die ne child been abandoned? ne child been diagnosed with TB? ne child had poor health in the last: ne child been admitted to hospital re low weight/poor weight gain? child stunted or short for age? ne child ever had an ear discharge? s the child have recurring skin prob strent for testing if status unknown/neg	essary to continue with the scre N IV positive?* B months? Jems? Jems? Jems? Jems?	מן וא פון		
If this information could not be obtained from the file continue to the interview section: B) Interview Healthcare provider to conduct interview in a sensitive and confidential manner. (It may be prudent for the child not to be present for these screening questions) Obtain consent if screening is not done as part of a consultation by a clinician. Consent: Proceed if with parent/primary caregiver I will be asking you some questions about your and your child's health. These include questions about HIV, TB and other health related questions. You do not need to answer them if you do not feel comfortable to do so. Please sign below: lagree that the healthcare provider can ask me questions. (Parent/primary caregiver)					
RECOMMENDATION HIV testing recommended? Screened by) <u> </u>	Designation			

mening questions based or

The National Department of Health South Africa. National Consolidated Guidelines for the Prevention of Mother-To-Child transmission of HIV (PMTCT) and the management of HIV children, adolescents and adults. 2015.

The National Department of Health South Africa, WHO, UNICEF, Integrated Management of Childhood Illness, Vol. 2, 2014.

3. Bandason T, McHugh G, Dauya E, Mungofa S, Munyati SM, Welss HA, et al. Validation of a screening tool to identify older children living with HIV in primary care facilities in high HIV provalence settings. AIDS (Intamet), 2016;30(5):779–85.

4. Arpadi S. Growth Failure in Children With HIV Infection (Internet), Vol. 25, Journal of acquired Immune Deficiency Syndrome.

00 n 27-42 Augilable from http://do.umale.hum.com/aude/d.betra-t/2000/1000/45courth_Eallure_in_Children_With_UN_Infection.6.a

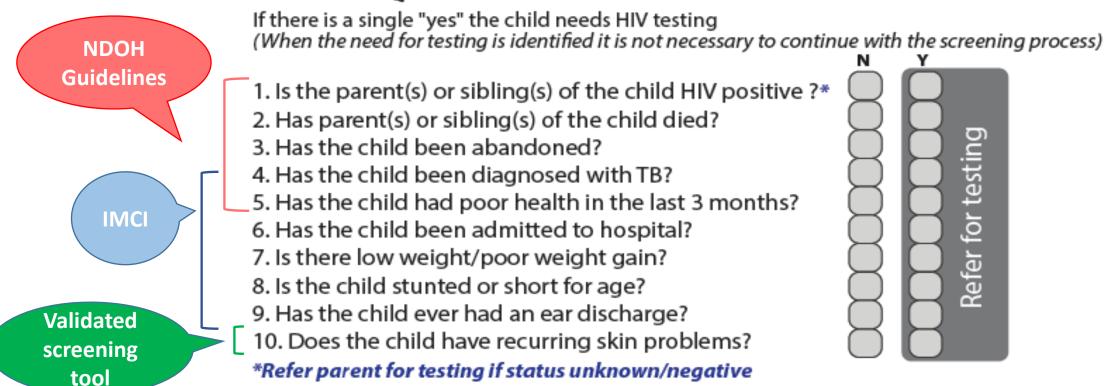






Screening Tool for identifying children and families at risk of living with HIV

SCREENING QUESTIONS



Screening questions based on:

- 1. The National Department of Health South Africa. National Consolidated Guidelines for the Prevention of Mother-To-Child transmission of HIV (PMTCT) and the management of HIV in children, adolescents and adults. 2015.
- 2. The National Department of Health South Africa, WHO, UNICEF. Integrated Management of Childhood Illness. Vol. 2. 2014.
- 3. Bandason T, McHugh G, Dauya E, Mungofa S, Munyati SM, Weiss HA, et al. Validation of a screening tool to identify older children living with HIV in primary care facilities in high HIV prevalence settings. AIDS [Internet]. 2016;30(5):779–85.
- Arpadi S. Growth Failure in Children With HIV Infection [Internet]. Vol. 25, Journal of acquired Immune Deficiency Syndrome.
 2000. p. 37–42. Available from: http://journals.lww.com/jaids/Abstract/2000/10001/Growth Failure in Children With HIV Infection.6.aspx

Procedure for Screening Package

Child presents to a facility



Screening Tool used to identify high risk of HIV infection



Identified high risk children are offered PICT



Should child test HIV positive



Complete index patient tracing tool



Index tracing



Data captured on **Monitoring Tool**

EPI, IMCI, Acute

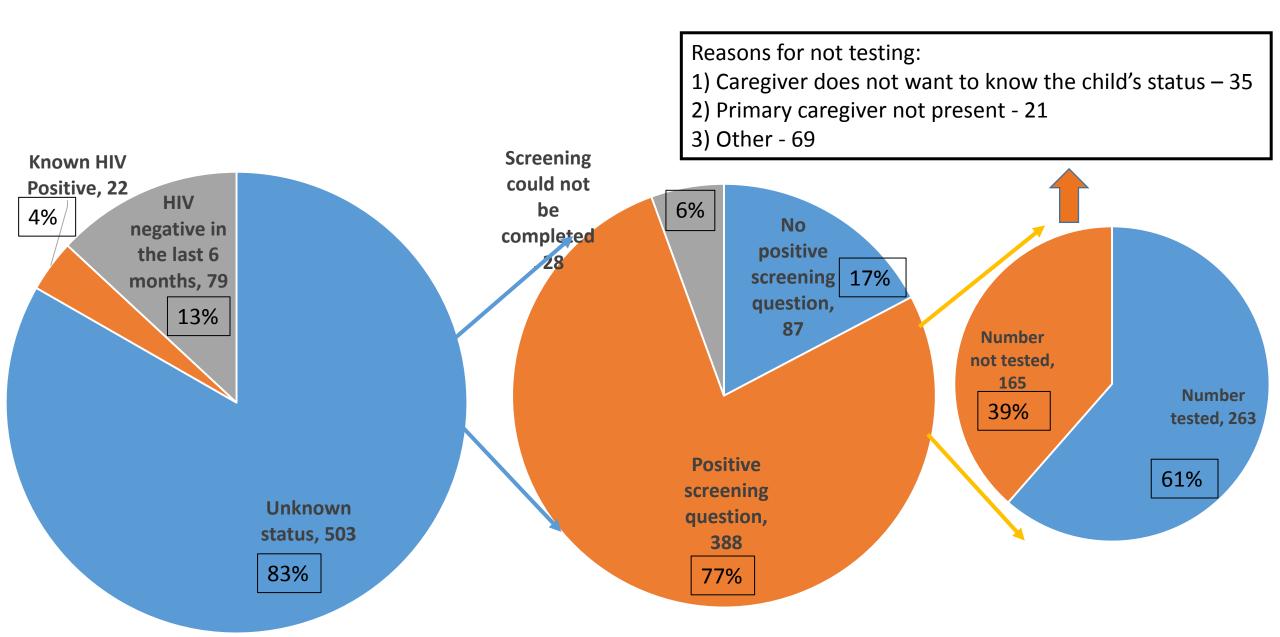
Lay counsellor / Nurse

Exclusion criteria:

- Children who are known to be HIV positive
- Children presenting without a caregiver
- Children who had a documented HIV test in the last 6 months
- Those who are very ill and need immediate care or transfer

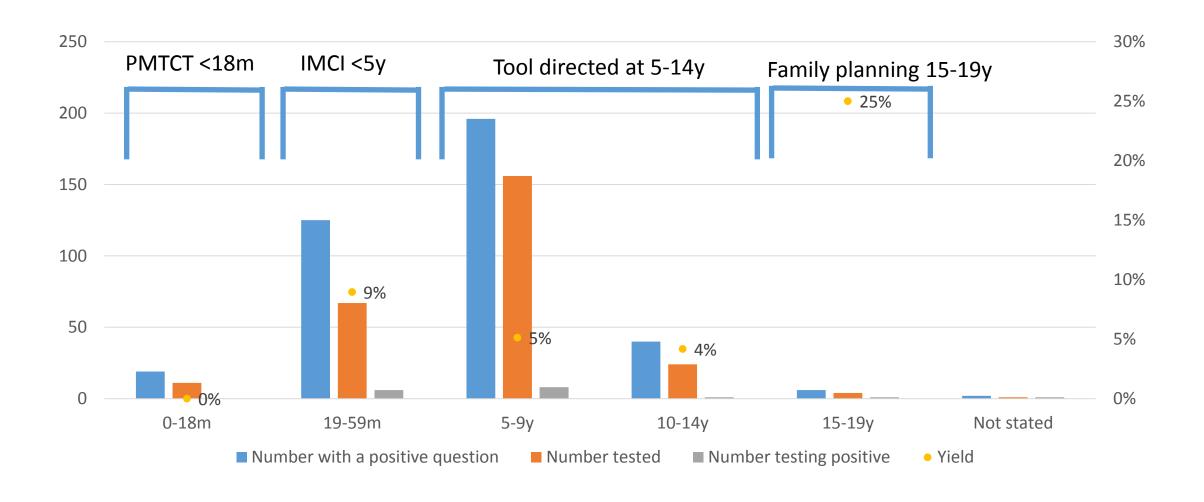
Lists other children in the home at risk of being HIV-infected

Results: 1 April – 28 September 2017



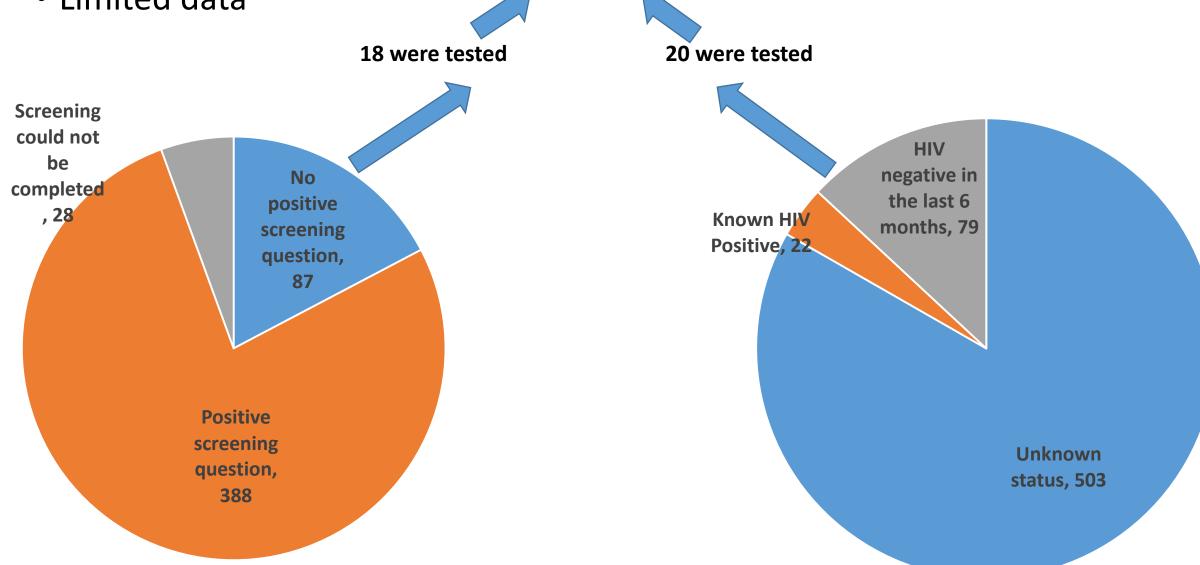
Testing per age group

Screening tool yield 5-14y = **5**% Expected HIV prevalence 5-14y in SA = **2.7**%



Specificity

• Limited data



ALL tested

negative

Conclusions

 The Screening Tool improves case finding in children with a yield of 5% (compared to childhood HIV prevalence of 2.7%)

Country of implementation	Number of questions	Number screened	Number needed to screen
South Africa	10	604	36
Malawi ¹	6	1815	67
Zimbabwe ²	4	3488	42

- It is effective in identifying HIV-infected children in the targeted age group (5-14y) – but can be used wider
- This screening tool needs further validation to ensure no children are missed – performed in a setting with universal testing
 - 1. Schooley A, 2016
 - 2. Ferrand RA et al, 2011, TMIH

Important points

- 1. Though there are existing guidelines, it is beneficial to bring them together a concise list of questions to assist the HCW and formalise the process in a documented framework.
- 2. Screening tools assist HCW to conserve time and resources by directing testing at the high risk children
- 3. Screening Tools must be evidence-based and preferably be validated in a setting with universal testing



Acknowledgements

- Our funders USAID and PEPFAR
- Dr Sanlie Untiedt Tool design, data collection and collation
- PASP team For implementing and monitoring the use of the tool
- Right to Care Paediatric Programme under Dr Leon Levin
- Dr Alan Schooley Malawi
- Dr Rashida Ferrand Zimbabwe





